

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions:

1. (Cancelled)

2. (Currently Amended) ~~An~~ The apparatus of claim 9 further comprising:

~~— an impedance plane defining an elongated strip, said impedance plane comprising a magnetic conductor within at least a particular frequency band;~~

~~— a sector antenna coupled to one side of the impedance plane, said sector antenna having a planar form factor with dimensions contained within the elongated strip, and said sector antenna having a radiation pattern in the particular frequency band that is flared out from the impedance plane at a particular angle; and~~

a conductor plane coupled to the impedance plane on a side opposite the sector antenna, said impedance plane to suppress surface currents between the sector antenna and the conductor plane.

3. (Currently Amended) ~~The apparatus of claim 2~~ claim 9 wherein the conductor plane comprises a metal housing.

4. (Previously Presented) The apparatus of claim 3 wherein the metal housing comprises a housing for one of a notebook computer and a tablet computer.

5. (Currently Amended) ~~An~~ The apparatus of claim 9 comprising:

~~an impedance plane defining an elongated strip, said impedance plane comprising a magnetic conductor within at least a particular frequency band; and~~  
~~a sector antenna coupled to one side of the impedance plane, said sector antenna having a planar form factor with dimensions contained within the elongated strip, and said sector antenna having a radiation pattern in the particular frequency band that is flared out from the impedance plane at a particular angle, wherein the sector antenna comprises a plurality of short elements arranged in parallel to one another, and perpendicular to a common axis, said common axis being parallel to a long dimension of the impedance plane.~~

6. (Currently Amended) The apparatus of ~~claim 2~~ claim 9 wherein the sector antenna comprises a Yagi-type antenna.

7. (Currently Amended) The apparatus of ~~claim 2~~ claim 9 wherein the impedance plane comprises an Artificial Magnetic Conductor (AMC).

8. (Currently Amended) The apparatus of ~~claim 2~~ claim 9 wherein the particular angle is between 35 and 60 degrees.

9. (Previously Presented) An apparatus comprising:

an impedance plane defining an elongated strip, said impedance plane comprising a magnetic conductor within at least a particular frequency band; and  
a sector antenna coupled to one side of the impedance plane, said sector antenna having a planar form factor with dimensions contained within the elongated strip, and said sector antenna having a radiation pattern in the particular frequency band that is flared out from the impedance plane at a particular angle, wherein the particular frequency band comprises a first frequency band, said impedance plane further comprising a magnetic conductor within a second frequency band, said sector antenna having radiation patterns that flare out from the impedance plane in both the first and second frequency bands.

10. (Currently Amended) An apparatus comprising:

an impedance plane defining an elongated strip, said impedance plane comprising a magnetic conductor within at least a particular frequency band;  
a sector antenna coupled to one side of the impedance plane, said sector antenna having a planar form factor with dimensions contained within the elongated strip, and said sector antenna having a radiation pattern in the particular frequency band that is flared out from the impedance plane at a particular angle;

a conductor plane coupled to the impedance plane on a side opposite the sector antenna, said impedance plane to suppress surface currents between the sector antenna and the conductor plane;

~~The apparatus of claim 2 further comprising:~~

a plurality of additional impedance planes, each of the plurality of additional impedance planes defining an elongated strip, and comprising a magnetic conductor within at least a particular frequency band; and

a plurality of additional sector antennas each coupled to one side of a respective one of the plurality of additional impedance planes, each of the plurality of additional sector antennas having a planar form factor with dimensions contained within the respective elongated strip, having a radiation pattern in the respective particular frequency band that is flared out from the respective impedance plane at a particular angle.

11. (Original) The apparatus of claim 10 wherein the impedance plane and the plurality of additional impedance planes together comprise four impedance planes.

12. (Original) The apparatus of claim 11 wherein the impedance planes are coupled in pairs to opposites sides of a host device, and the radiation patterns from each pair are arranged in opposite orientations.

13. (Original) A system comprising:

a computer; and

a plurality of sector antenna units coupled to the computer, each of the sector antenna units comprising

an impedance plane defining an elongated strip, said impedance plane comprising a magnetic conductor within at least a particular frequency band, and

a sector antenna coupled to one side of the impedance plane, said sector antenna having a planar form factor with dimensions contained within the elongated strip, and said sector antenna having a radiation pattern in the particular frequency band that is flared out from the impedance plane at a particular angle.

14. (Previously Presented). The system of claim 13 wherein the computer comprises one of a notebook computer and a tablet computer.

15. (Previously Presented). The system of claim 13 wherein the computer comprises a metal housing coupled to the plurality of sector antenna units on a side of each respective impedance plane opposite the respective sector antennas.

16. (Previously Presented) The system of claim 13 further comprising a plurality of mounting locations on the computer corresponding to the plurality of sector antenna units.

17. (Previously Presented) The system of claim 16 wherein the plurality of mounting locations comprise two locations on each of two opposite edges of the computer.

18. (Previously Presented) The system of claim 17 wherein the two opposite edges comprise opposite edges of a lid of the computer.

19. (Previously Presented) The system of claim 18 wherein, on each of the opposite edges of the lid, two of the sector antenna units are coupled with their respective radiation patterns arranged in opposite orientations.

20. (Previously Presented) The system of claim 13 wherein each of the impedance planes comprises an Artificial Magnetic Conductor (AMC).

21. (Previously Presented) The system of claim 13 wherein each of the sector antennas comprises a Yagi-type antenna.

22. (Previously Presented) The system of claim 13 wherein at least one of the radiation patterns comprises an azimuth of greater than or equal to 90 degrees.

23. - 25. (Cancelled)